

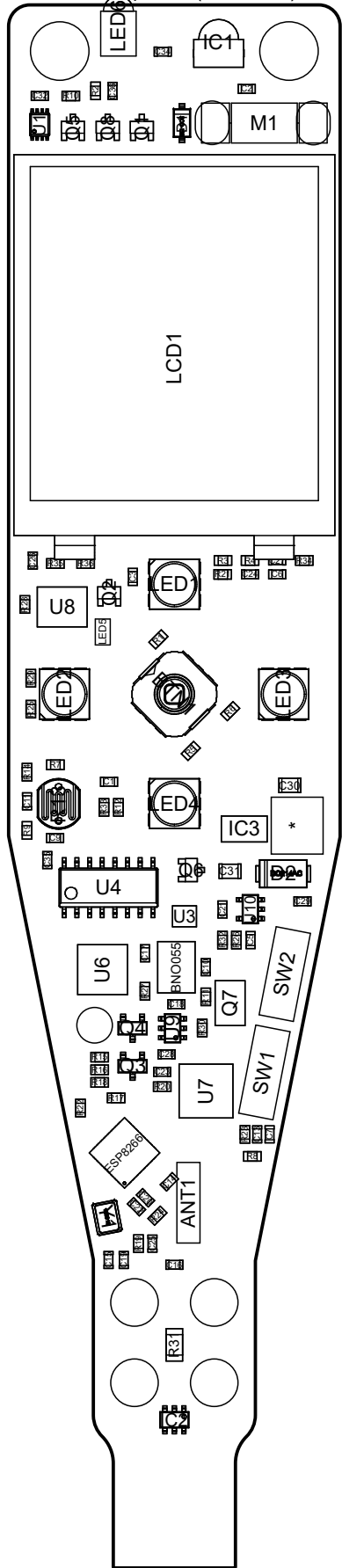
A

B

C

D

View from Top side (Scale 3:2)



Bill Of Materials

Item	Designator	Comment	Quantity
1	*	L	1
2	ANT1	ESP-ANTENNA	1
3	B1	18650-Holder	1
4	BNO55	BNO-055 I2C	1
5	BTN1	joystick	1
6	C14, C15, C19	5.6p 50V	3
7	C21, C26, C27	10u 6.3V	3
8	C1-C3, C5, C9-C11, C13, C17, C18, C22, C24, C28, C32, C34, C35	100n 25V	16
9	C25	220p 50V	1
10	C30, C31	47u 6.3V	2
11	C16, C20, C23, C29, C36	1u 10V	5
12	C6	2.2u 16V	1
13	C7	1n 50V	1
14	D1	BAT54T1G	1
15	D2	B230A-13-F	1
16	ESP8266	ESP8266EX	1
17	IC1	TL1838	1
18	IC2	USBLC6-2SC6	1
19	IC3	BL8530	1
20	LCD1	LCD	1
21	LED1-LED4	WS2813	4
22	LED5	DUO_LED	1
23	LED6	IR_LED	1
24	M1	VIBRATOR	1
25	P1	Header 4H	1
26	Q3, Q4	NPN_MMBT3904	2
27	Q7	CEG8205	1
28	Q1, Q2, Q5, Q6, Q8	AO3400	5
29	R3, R10, R11, R15, R16, R19, R21-R25	12k	11
30	R13	LDR	1
31	R12, R14	330k	2
32	R26, R32	4k7	2
33	R27	100	1
34	R20, R28-R30	1.2k	4
35	R31	0.27	1
36	R33	1M	1
37	R34	0	1
38	R2, R17, R18, R35, R36	470	5
39	R4	33	1
40	R7	200k	1
41	R1, R5, R6, R8, R9	100k	5
42	SW1, SW2	SWITCH_2P2T	2
43	U1	74LVC2G12DCUTG4	1
44	U10	MIC5501-3.3V	1
45	U3	PCA9571	1
46	U4	CD4051BM	1
47	U6	CP2102-GM	1
48	U7	W25Q64	1
49	U8	TP4056	1
50	U9	DW01A	1
51	Y1	26MHz	1

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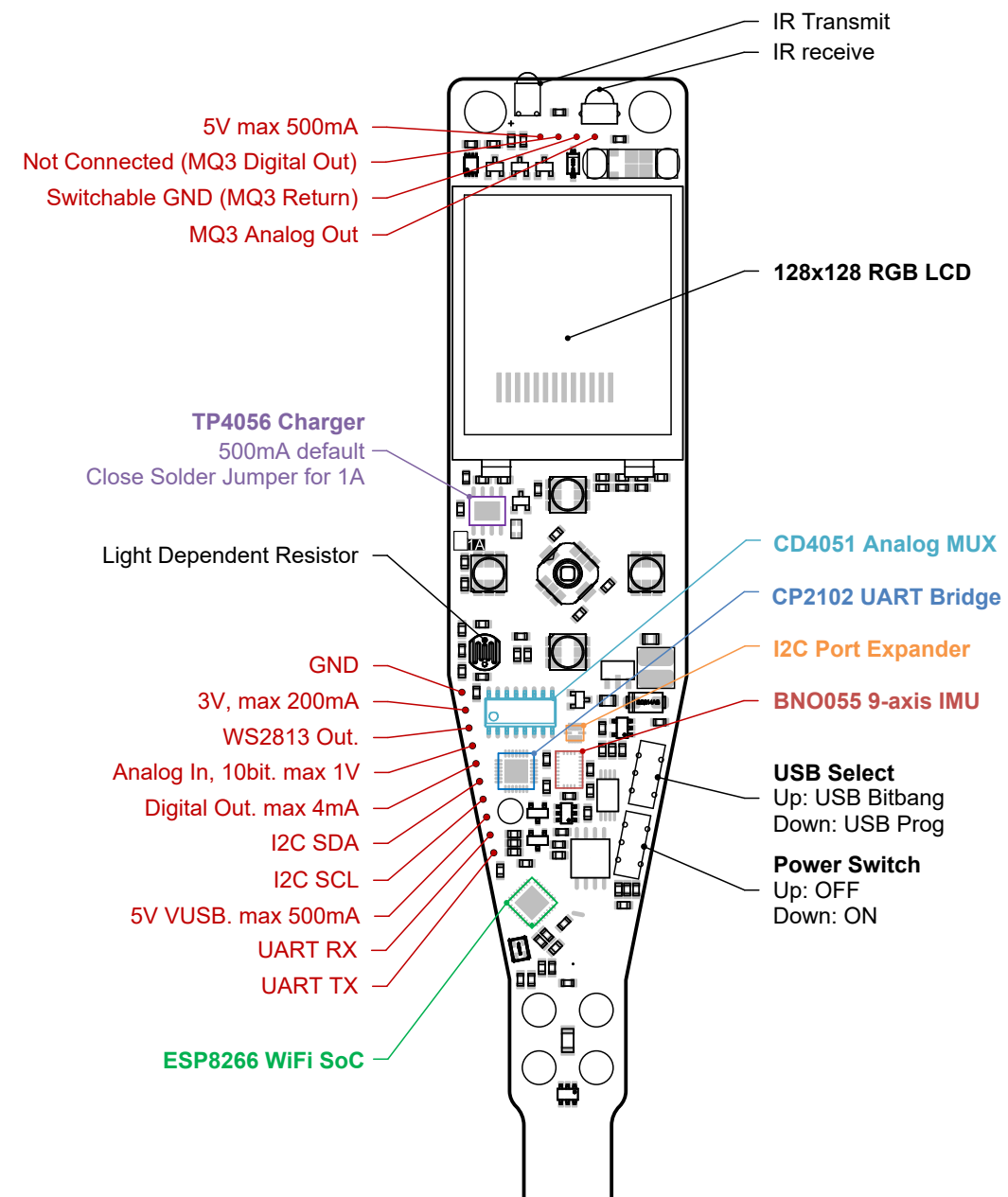
		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE		
		DIMENSIONS ARE IN INCHES	DRAWN	4/21/2017			
		TOLERANCES:	CHECKED				
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±			SIZE DWG. NO.		
		THREE PLACE DECIMAL ±					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		SCALE: 1:1 WEIGHT: SHEET 1 OF 3		
		MATERIAL	COMMENTS:				
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

A

B

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D



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		UNLESS OTHERWISE SPECIFIED:	DESIGNED:	NAME	DATE				
		DIMENSIONS ARE IN INCHES	DRAWN		4/21/2017				
		TOLERANCES:	CHECKED			TITLE			
		FRACTIONAL ±	ENG APPR.						
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		MATERIAL	COMMENTS:			SIZE	DWG. NO.		
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 3 OF 3	